**Hao Li**

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(828) 334-1815

**EDUCATION**

**Yale University** Expected: May 2022

Bachelor and Master of Science in Computer Science 4.0 Major 3.77 Overall GPA

**SKILLS**

**LANGUAGES Java** (Proficient) **C** (Proficient) **Python** (Proficient) **SQL** (Intermediate)

**COURSES** Data Structures Algorithms Computer Graphics Systems Programming

**EXPERIENCE**

**Yale Center for Research Computing** — High Performance Computing Intern May 2020 – Aug 2020

* *Implemented and improved various functionalities to an existing Python script that summarizes resource usage of jobs on the cluster. Integrated the project to DockerHub and CircleCI. Developed an Illumina sequencing pipeline using Nextflow.*

**Yale Computer Science** — Undergraduate Learning Assistant Aug 2019 – May 2020

* *Teaching efficient programming and problem-solving techniques to students enrolled in the   
  Data Structures course. Explaining concepts and providing guidance on programming projects written in C, Python, HTML, CSS, and JavaScript.*

**PROJECTS**

**Abash**  Recreated Bash with basic functionality using C system calls. Supports

execution of pipelines, directory manipulation, and zombie reaping.

*Technical skills: C, system calls, pipelines, environment variables*

**LZW** Implemented the Lempel-Ziv Welch compression algorithm using an array

implementation of a trie to efficiently store and access codes in the code table.

*Technical skills: C, tries*

**EMPLOYMENT ELIGIBILITY FOREIGN LANGUAGE**

**U.S. Citizen**  **Chinese** (Proficient)